

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 38509-0012	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US03/07103	International filing date (<i>day/month/year</i>) 07 March 2003 (07.03.2003)	(Earliest) Priority Date (<i>day/month/year</i>) 07 March 2002 (07.03.2002)
Applicant UNIVERSITY OF UTAH RESEARCH FOUNDATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. _____



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/07103

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/48

US CL : 702/19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 702/19,20; 435/6,69.1;703/11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,331,396 B1 (SILVERMAN et al.) 18 December 2001(18.12.2001), see especially the abstract and section entitled SUMMARY OF THE INVENTION in columns 2-3.	1-16
Y	US 6,203,987 B1 (FRIEND et al.) 20 March 2001(20.03.2001), see especially the title, abstract, and the section entitled SUMMARY OF THE INVENTION in columns 2-4.	1-16
Y	US 6,303,301 B1 (MACK) 16 October 2001(16.10.2001), see especially the title, abstract, and the section entitled SUMMARY OF THE INVENTION in columns 1-4.	1-16
Y	US 6,221,600 B1 (MACLEOD et al.) 24 April 2001(24.04.2001), see especially the title, abstract, and the section entitled SUMMARY OF THE INVENTION in columns 4-7	1-16
Y	US 6,351,712 B1 (STOUGHTON et al.) 26 February 2002(26.02.2002), see especially the title and the section entitled SUMMARY OF THE INVENTION in columns 4-6.	1-16
Y	US 6,340,565 B1 (OLINER et al.) 22 January 2002(22.01.2002), see especially the title, abstract and the section entitled SUMMARY OF THE INVENTION in columns 1-3.	1-16
Y	US 6,160,105 A (CUNNINGHAM et al.) 12 December 2000(12.12.2000), see especially the title, abstract, and the section entitled SUMMARY OF THE INVENTION in columns 1-2.	1-16



Further documents are listed in the continuation of Box C.



See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

14 June 2003 (14.06.2003)

Date of mailing of the international search report

03 JUL 2003

Name and mailing address of the ISA/US

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,160,104 A (CUNNINGHAM et al.) 12 December 2000(12.12.2002), see especially the title, abstract, and the section entitled SUMMARY OF THE INVENTION in columns 1-3.	1-16

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Continuation of B. FIELDS SEARCHED Item 3:

WEST, CAS, EMBASE, MEDLINE, BIOSIS, BIOTECH ABS., WPI covering search terms: genes, set, expression, levels, state, array, microarray, nucleotide, measurements, quality, function, permutations, groups, profiles, characteristics, maximum, null, percentile, distribution, and cancer, renal, prostate, lung, normal, abnormal, and breast